READ THIS MANUAL BEFORE OPERATING YOUR MOTORINO™

GREENWIT Ltd. STRONGLY SUGGESTS THE OPERATOR OF THIS PRODUCT BE 16 YEARS OF AGE OR OLDER.

Assembly and User's Manual

Model: XPi/XPh

For the most recent version of this user's manual and for all updated product information please visit **www.motorino.ca** or call Customer Service / Technical Support at:

604-331-0555

GREENWIT TECHNOLOGIES Inc. 2007

YOUR INSURANCE POLICIES MAY NOT PROVIDE COVERAGE FOR ACCIDENTS INVOLVING THE USE OF THE MOTORINO™. TO DETERMINE IF COVERAGE IS PROVIDED YOU SHOULD CONTACT YOUR INSURANCE COMPANY OR AGENT.

TABLE OF CONTENTS

Table of Contents 2

Features and Specifications 3

- Contents of the box 3

General safety guidelines 4

- Before each ride 6
- After each ride 7

Assembly Instructions 8

Battery 11

General Usage Notes 13

Maintenance 14

- Break Maintenance 14
- Flat Tire Repair 15

Operating Instructions 16

- Key and Throttle operation 16
- Display 17
- Main Components 18

Troubleshooting 19

Warranty 20

Warranty Service 21

Return Policy 22

Notes 23

FEATURES AND SPECIFICATIONS

- Motor Specs: Brushless DC Motor, Rotated Peak Power: 500W, Speed: 400r/min
- Recharge Time for the Battery: 4-6 Hours
- Battery Holds 4-6 Hours of ride Time
- One Full Charge Lasts up to 50 km with single battery and 80 km with dual.
- Speeds up to 32km/h on level pavement with 75 kg rider
- Weight of MOTORINO: 75 kg

** More details available at www.motorino.ca*

CONTENTS OF THE BOX

- **MOTORINO™** with 48V battery installed (charging required)
- Left and right pedals (to be attached, no tool required)
- **MOTORINO™** 48V charger for 110V AC outlet
- Rain cape and bike rain cover
- Two Ignition Keys (also used for under seat storage and main battery compartment)
- Two remote alarm controllers
- Two mirrors (left and right)
- Two Storage Box Keys

UNDERSTANDING THIS MANUAL

This Manual contains many ▲**WARNING** notes concerning the consequences of failure to maintain or inspect your **MOTORINO™** . A ▲**WARNING** means that failure to follow the instructions following it may result in injury to the rider or others during use, which may include loosing control and falling. Because any fall can result in serious injury or even death, we do not repeat the warning of possible injury or death whenever the risk of falling is mentioned. A ▲CAUTION on the other hand means that failure to follow the instructions may result in damage to the MOTORINO™ or component during installation or use. (I.e. risk of property (product) damage only)

Thank you for purchasing the low speed electrically powered **MOTORINO™**
The **MOTORINO™** complies with the Canadian Motor Vehicle Safety Regulation Act (CMVSRA). It is classified as Power Assisted Bicycle in section 1.2.1 in the above mentioned act.

GENERAL SAFETY GUIDELINES & RESTRICTIONS

Your province motor vehicle branch, or the city or county where it will be used, may regulate the use of devices like the **MOTORINO™**. Some provinces or states may require a driver's license or minimum age to use the **MOTORINO™**. In some provinces it may be referred to as an "power assisted bicycle" or "restricted use motorcycle". Please check with your local motor vehicle branch or insurance company on requirements for using the **MOTORINO™**.

If your province or state allows the **MOTORINO™** to be used on vehicle roadways please make sure you are familiar with all traffic laws, such as yielding to pedestrians and other motorists, signaling, riding as far to the right edge of the roadway as possible, obeying traffic signs etc. Your province MVB or state DOT can provide you with materials related to these traffic laws.

In addition to those traffic laws abide by the following general principals:

1. You are sharing the road or the path with others - motorists, pedestrians and other cyclists. Respect their rights, and be tolerant if they infringe on yours.

2. Ride defensively.

3. Look ahead of where you're going, and be ready to avoid:
 - Vehicles slowing or turning in front of you, entering the road or your lane ahead of you, or coming up behind you.
 - Parked car doors opening in front of you.
 - Pedestrians stepping out in front of you.
 - Children or dogs playing near the road.
 - Pot holes, sewer grating, railroad tracks, expansion joints, road or sidewalk construction, debris and other obstructions that could cause you to swerve into traffic, catch your wheel or otherwise cause you to lose control and have an accident.
 - The many other hazards and distractions which can occur while using the **MOTORINO™** during a ride.

4. Ride on the right side of the road, in the same direction as vehicle traffic and as close to the edge of the road as possible.

5. Stop at stop signs and traffic lights; slow down and look both ways at street intersections. Remember that the **MOTORINO™** will always lose in a collision with a motor vehicle, so be prepared to yield even if you have the right of way.

6. Always use signal lights or hand signals for turning and stopping. Learn the local vehicle code for the correct signal.

7. Don't weave through traffic or make any moves that may surprise people with whom you are sharing the road.
8. Never carry anything which obstructs your vision or your complete control of the MOTORINO™ or which could become entangled in the moving parts of the **MOTORINO™**
9. Never hitch a ride by holding on to another vehicle.

NEITHER GREENWIT Ltd. NOR THE RETAIL SELLER OF THE **MOTORINO™** IS RESPONSIBLE FOR THE CONSEQUENCES OF FAILURE TO COMPLY WITH FEDERAL AND PROVINCIAL ORDINANCES RELATING TO THE USE OF THE **MOTORINO™**

⚠ WARNING

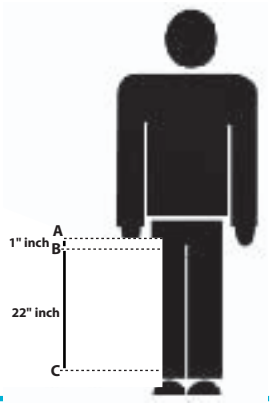
ALWAYS USE A HELMET WHILE RIDING THE **MOTORINO™**

US and Canadian safety regulations require that you use a helmet like those used by human powered bike riders while riding the MOTORINO™ MOTORINO™ should not be used under any circumstances without properly wearing a helmet.

⚠ WARNING

IN ADDITION TO THE REQUIREMENTS ABOVE, THE **MOTORINO™** IS NOT TO BE RIDDEN / USED:

1. on any roadways where the speed limit is in excess of 50 km/h
2. on any sidewalks or pedestrian walkways
3. on any bumpy, rough or unpaved surfaces
4. in darkness without lights on
5. on sandy or gravel covered surfaces
6. by any person weighing more than 310 lbs
7. by any person with an inseam of less than 22"



8. by any physically or mentally challenged person
9. by any person with vision, balance, hearing or coordination impairments
10. by any person using headphones or a cellular phone [They mask traffic sounds and emergency vehicle sirens, distract you from concentrating on what's going on around you, and their wires can tangle in the moving parts of the MOTORINO™, causing you to lose control]
11. to carry more than 10 lbs of cargo in the cargo compartment (in addition to the rider)
12. in excess of 20 mph (with or without the motor activated)
13. by barefoot riders or those wearing sandals, open toed, high heeled, platform or slip on footwear
14. by any person who has ingested any alcohol or drug that could impair their ability to operate the MOTORINO™
15. without 2 hands on the handle bar
16. while not seated on the seat
17. to jump ramps, curbs, or objects or attempt any stunts
18. with excessive speed for the terrain, circumstances or maneuver with clothing or extremities in close proximity to the drive chain or any moving parts
19. beyond your ability or prior experience
20. by stopping with only the front brake. Use both brakes simultaneously
21. Do not try to accelerate and have the brake (s) on at the same time. [This may cause damage to the motor or drive train or cause the motor or drive train to overheat.]

BEFORE EACH RIDE:

⚠ WARNING ⚠ CAUTION

1. Make sure you properly wear a helmet
2. Wear protective clothing and gloves
3. Wear eye protection that does not interfere with your peripheral vision
4. Check local and state laws before operating the MOTORINO™ in any area
5. Make sure all tail/brake lights, turn signals and headlight are operational
6. Make sure the horn is operational
7. Make sure the brakes are properly adjusted and working correctly (see further detailed instructions).
8. Make sure you understand how the brakes work and that your hands can reach and squeeze the levers comfortably and hard enough to stop the MOTORINO™ safely.
9. Make sure the chain is properly adjusted (see further detailed instructions).

10. *Make sure all parts of the* **MOTORINO™** *are properly and securely fastened and adjusted, including but not limited to pedals, crank arms, wheels, all controls and cargo (Please refer to Assembly Instructions)*
11. *Make sure the tires are not excessively worn, do not have tears or cuts, and are properly seated on the rim and inflated to the proper pressure on the sidewall (DO NOT USE GAS STATION PUMPS FOR INFLATION)*
12. *Make sure the wheels spin straight and that the rims are not bent or damaged (front wheel must be undamaged for front brake to work properly)*
13. *Make sure the throttle is in the "OFF" position before turning* **MOTORINO™** *key on. This will prevent the* **MOTORINO™** *from moving forward without notice once the ignition key is turned.*

⚠ WARNING **AFTER EACH RIDE:** **⚠ CAUTION**

1. *Make sure that the ignition key is turned OFF and that all keys are removed and kept in a safe place*
2. *Make sure to plug the battery on charge*
3. *Make sure the throttle is rotated to the off position*
4. *Ensure that the kickstand is used so the* **MOTORINO™** *will not fall over and get damaged*
5. *Ensure the* **MOTORINO™** *is not kept outdoors or where moisture can damage it*
6. *Do not charge or store the* **MOTORINO™** *closer than 20 feet from any flame (e.g. furnace, fireplace, water heater, space heater)*
7. *Do not allow children under 16 to play on or near the unattended* **MOTORINO™**

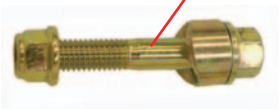
⚠ WARNING ***FAILURE TO FOLLOW THESE OPERATION INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH OR COULD RESULT IN AN ELECTRICAL SHORT AND OR FIRE.***

⚠ WARNING ***DO NOT MAKE ANY ALTERATIONS OR MODIFICATIONS TO THE*** **MOTORINO™** ***, OR ADD ANY PARTS NOT AUTHORIZED BY GREENWIT Ltd. EXCEPT THOSE DISCUSSED IN THIS MANUAL OR THOSE REQUIRED BY LAW. DO NOT REMOVE ANY REFLECTORS, LIGHTS OR OTHER STANDARD EQUIPMENT. DOING THAT WILL VOID YOUR WARRANTY.***

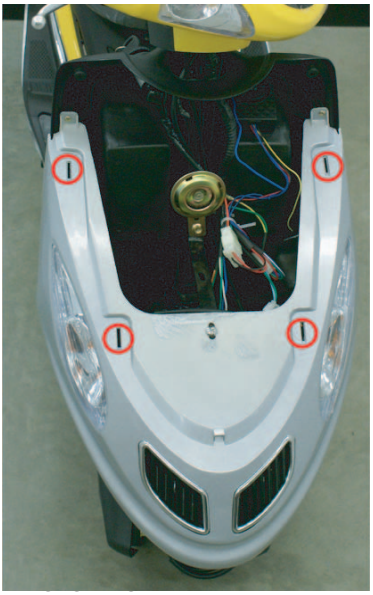
All authorized replacement parts are listed on the parts list enclosed or available at www.greenwit.com and www.motorino.ca or by calling your local **MOTORINO™** dealer.

HANDLE BAR

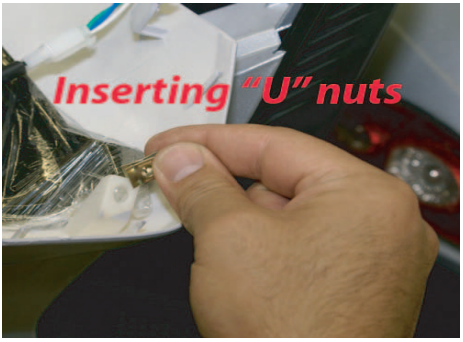
Insert the top part of the handlebar into the handlebar post as shown on the picture. Locate the attachment bolt with the nut and the spacer and insert the bolt in the hole from back to front. Slide the spacer into the bolt with the round side facing the handlebar post. Screw the nut on top and tighten it. After attached, the handlebar should look as on the picture on the right.



FRONT PANEL



Locate the front panel and connect the head light wire plug to the correspondent plug at the front of the bike as shown on the picture. Insert the plastic fins of the front panel at the corresponding channels of the base (see the picture) and slide it upwards untill the holes of the back black cover match the screw holes of the cover. Insert the screws into the holes of the black back cover and screw them onto the front cover.

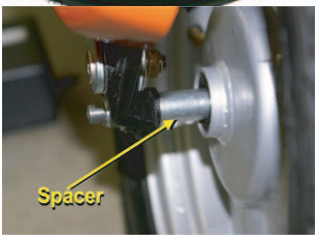


Locate the front panel and connect the head light wire plug to the correspondent plug at the front of the bike as shown on the picture. Locate the front hole in the middle of the panel and use the included short bolt to attach it to the body . Locate all attachment points of the cover, insert the screws into the holes of the black cover and screw them onto the front cover.

FRONT WHEEL WITH DRUM BREAK

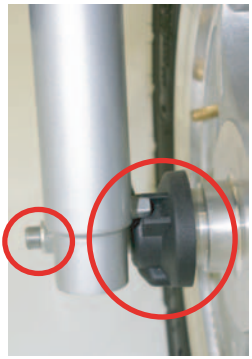
The front end of the bike is attached to the crate with a bolt which is the original axle. Unscrew the nut carefully and remove the axle. Locate the front wheel and insurt the break mechanism into it.

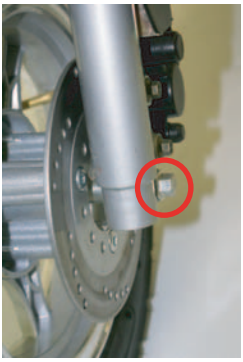
nsert the axle first in the swing arm of the front fork and then in the break drum and the wheel. Make sure to apply the spacer before inserting the axle in the other side of the fork. Tighten the nuts firmly.



FRONT WHEEL WITH DISK BREAK

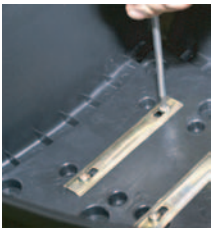
Before installing the front wheel gently take appart disk break pads using a wide flat screwdriver so the wheel disk can squeeze between the pads. Push the speedometer black cap against the wheel and possition it in the way that the axle bolt can go through it. Tighten firmly the nut at the oposite side.





STORAGE BOX

Locate the storage box and the hardware necessary to mount it on the back of the scooter. Mount the bike rack using the bolts and the nuts in the package. Install the box on the top of the rack using the metal bracked and bolts.



PEDALS

Locate Pedals (Set of 2). The pedals are labeled left and right near the threads. They are not interchangeable. The left pedal goes into the threaded hole on the left crank arm on the left side of the **MOTORINO™** (your left side as if seated on the **MOTORINO™**). The inside surface of the crank arms are labeled "L" and "R" like the pedals. The Left pedal has reverse threading meaning it tightens by turning it to the left (counter-clockwise). The Right pedal has normal threading and tightens by turning it to the right (clockwise). After threading the pedals into the crank arms as far as possible with your fingers (to avoid cross threading), tighten them snugly with an adjustable wrench.

REARVIEW MIRRORS

Locate the mirrors included with your MOTORINO scooter . Connect the three wires of the mirrors to the same color wires coming out of the mirror holes. Use a hexagonal ("Allen" or "Hex" wrench) to attach the mirrors as shown in the pictures. Make sure you use the included spacer under the mirror base if necessary. Then screw the bolt onto the threaded ends as shown on picture below.

The mirror needs to be tightened fully for assembly to be safe. Repeat the process for the other mirror. Once mirrors are installed, they should look like the picture below. Make sure to adjust the mirrors before use so that you can see behind you as you ride.

When you are sitting on the scooter you can adjust the mirrors by pushing the mirror surface up, down, left and right.

BATTERY

BEFORE OPERATING YOUR NEW **MOTORINO™** FOR THE FIRST TIME, CHARGE THE BATTERY FOR 8-12 HOURS, BUT UNDER NO CIRCUMSTANCES IN EXCESS OF 18 HOURS.

Be sure to charge the **MOTORINO™** after each use. Keeping the battery properly charged will help extend the battery life. Do not use the **MOTORINO™** while the power indicator on the instrument panel shows low energy. If the **MOTORINO™** is over-used the battery's life will be reduced. The **MOTORINO™** uses a 48V (volt) battery pack. To charge the battery, connect the 3-pin plug into the charging receptacle located directly below the front seat. The battery must be charged while installed in the **MOTORINO™**. If you notice anything unusual about the battery such as a cracked or leaking battery case, a battery that gets hot while being used or charged, a battery case that appears "puffy" or "bloated" etc, or there are any other problems with the battery, please contact your local Motorino dealer. The battery is sealed and is NOT user serviceable. Do not attempt to repair, remove, adjust or in any way alter any internal or electrical components, controls or wiring without first speaking with a customer service representative.

The main battery weighs approximately fourty eight (48) pounds. There is no need to remove it from the **MOTORINO™** unless you are replacing it. Use caution on removal. To replace the main battery pack, lift the foot mat and unlock the lock located on the left side of the **MOTORINO™** (using the ignition key). Proceed to pull the battery out utilizing the handle. Disconnect the battery cable. The **MOTORINO™** is equipped with a 48V battery charger that will interrupt the charging process once the battery has received a sufficient charge. Greeenwit Ltd strongly suggests that the charger not be used in excess of 18 hours to prevent any unnecessary wear on the battery or charger itself. Charging for periods greater than 18 hours may reduce the overall life expectancy and efficiency of these items.

⚠ CAUTION DO NOT DROP THE BATTERY

⚠ CAUTION TO AVOID DAMAGE TO THE BATTERY WHEN CHARGING, USE ONLY THE CHARGER PROVIDED WITH YOUR **MOTORINO™**.

1. ⚠ **WARNING** DO NOT CHARGE OR STORE THE MOTORINO™ CLOSER THAN 20 FEET FROM ANY FLAME (E.G. FURNACE, FIREPLACE, WATER HEATER, SPACE HEATER)
2. Be sure to only use 110V AC with the **MOTORINO™** charger. Also make sure the plug is inserted into a three prong grounded AC outlet.
3. PLUG the POWER INPUT CORD into the **MOTORINO™** charging receptacle located below the front of the seat. See picture above.
4. Plug the **MOTORINO™** 48V battery charger into a 110V AC power source.
5. The CHARGER INDICATOR LIGHT will illuminate confirming that power is connected to the charger. If the light does not come on check all connections. If it still does not come on after checking all connections, fuses and that your AC plug is working, unplug the charger and call your local **MOTORINO™** dealer.

BATTERY

6. ⚠ **WARNING** ***DO NOT KEEP THE MOTORINO™ CONNECTED TO THE CHARGER FOR LONGER THAN 18 HOURS UNDER ANY CIRCUMSTANCES! DOING SO COULD CAUSE THE BATTERY OR CHARGER TO OVERHEAT AND CAUSE A FIRE.***

7. When the light on the 48V charger is red, the **MOTORINO™** battery is being properly charged. When the **MOTORINO™** battery is fully charged, the light will turn green. If this does not occur after 16 hours of charging, unplug the charger and call your local **MOTORINO™** dealer. Normal recharge time for the main battery is 4-6 hours (assuming it is not 100% discharged).

8. Disconnect the charger from the 110V Power Source.

9. Disconnect the Input Cord from the Charging Receptacle.

10. ⚠ **WARNING** ***NEVER LEAVE THE BATTERY CHARGER CONNECTED TO THE 110V POWER SOURCE OR THE MOTORINO™ WHEN NOT CHARGING THE BATTERY. KEEPING THE CHARGER PLUGGED INTO THE 110V POWER SOURCE AND NOT THE BATTERY COULD CAUSE THE CHARGER TO OVERHEAT AND OR CAUSE A FIRE.***

11. When storing your **MOTORINO™** for lengthy periods of time, the battery should be charged at least once a month to avoid full depletion.

⚠ **WARNING** ***FAILURE TO KEEP THE MOTORINO™ BATTERY CHARGED WILL CAUSE TOTAL BATTERY FAILURE. DO NOT ALLOW BATTERY TO BECOME FULLY DISCHARGED!!! ALWAYS RECHARGE THE BATTERY BEFORE THE POWER INDICATOR ON THE INSTRUMENT PANEL SHOWS NO POWER. ALLOWING THE BATTERY TO FULLY DISCHARGE WILL REDUCE BATTERY LIFE AND MAY RUIN THE BATTERY OR COULD CAUSE THE BATTERY OR CHARGER TO OVERHEAT AND CAUSE A FIRE THE NEXT TIME THE MOTORINO™ IS CHARGED.***

⚠ **WARNING**

BATTERY POSTS, TERMINALS, POWER CORDS AND BRAKE CABLES MAY CONTAIN LEAD AND LEAD COMPOUNDS, AND OTHER CHEMICALS. WASH HANDS AFTER HANDLING.

BATTERY

BATTERY RECYCLING

When maintained and used properly, (by following charging and storage guidelines), the Lead Acid Battery Pack used in this product has a normal lifespan of two to three years. When the battery pack no longer holds a charge or is unable to be charged properly, it should be removed from the **MOTORINO™** and delivered to a recycling facility. Federal Laws prohibit disposal of lead-acid batteries in everyday trash. Please contact your local solid waste or recycling authority for recycling information in your area.

GENERAL USAGE NOTES

Break-in Period: Your **MOTORINO™** will last longer and work better when it is broken in properly. Brake control cables, chains and axle nuts may get loose when a new **MOTORINO™** is first used and may require an adjustment. We suggest that the brakes and axle nuts be checked every 30 days and adjusted if necessary.

The **MOTORINO™** scooter can be use without pedals but pedaling the **MOTORINO™** upon starting will save battery life and will make it easier to balance. The **MOTORINO™** can also be pedaled in situation where the battery power is too low due to a failure to charge or exceeding its distance range. The rider can also rest his or her feet on the pedals while riding the **MOTORINO™**. Turning the throttle all the way up and riding the scooter all the time on a full throttle will aslo reduce the range and the battery life. We suugest you to start smoothly and turn the throttle 1/4turn down when you have built a momentum.

It is a good idea to keep a tool kit with you when you ride. You should also carry 2 spare inner tubes that fit the wheel and tire size as well as a manual air pump (with gauge) to re-inflate the tire if you have a flat or it becomes low during use.

If your **MOTORINO™** sustains an impact:

⚠ WARNING ***A CRASH OR OTHER IMPACT CAN PUT EXTRAORDINARY STRESS ON COMPONENTS, CAUSING THEM TO FATIGUE PREMATURELY. COMPONENTS SUFFERING FROM STRESS FATIGUE CAN FAIL SUDDENLY AND CATASTROPHICALLY, CAUSING LOSS OF CONTROL, SERIOUS INJURY OR DEATH.***

First, check yourself for injuries, and take care of them as best you can.
Seek medical help if necessary. Next, if your **MOTORINO™** is damaged, perform the checks described in this manual. If you are unable to fix any or all damage/problems, or if you find any bent, scored, or discolored parts, please call your local **MOTORINO™** dealer

⚠ WARNING ***IF YOU HAVE ANY DOUBT ABOUT THE CONDITION OF THE*** **MOTORINO™** ***OR ANY OF ITS PARTS, DONT USE IT. CALL YOUR*** **MOTORINO™** ***DEALER***

Technological breakthroughs have made components more complex than ever before, and the pace of innovation is increasing. This on-going revolution makes it impossible for this manual to provide all the information required to properly repair and/or maintain your **MOTORINO™**
In order to help minimize the chances of an accident and possible injury, it is critical that you have all repair and maintenance work performed regularly.
For more detailed maintenance instructions or for ordering replacement parts please contact your **MOTORINO™** dealer. Local bicycle retail stores, which have service facilities in your area, can also assist you with certain non-electrical repairs or adjustments that you are not qualified to make or for which you do not have the specific or specialized tools needed for repair.

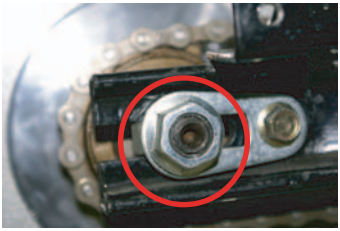
The fact that these scooters have no combustion engine, no transmission, no belts, no chains, no clutch, no ignition plugs, no carburetor, and uses no gasoline and no lubricants means it requires basically no maintenance. The unique design of the direct drive system and the use of regenerative brushless motor braking system confign all friction in **MOTORINO™** scooters only in the two bearings of the front axle and the two bearings in the motor and make it much easier to maintain than other electric scooters.
In generally all the regular mechanic maintenance is to:

- Adjust the brakes
- Check the nuts and bolts
- Check tire presure
- Check the chain

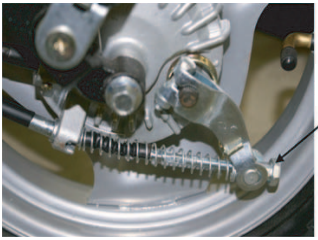
BRAKES MAINTENANCE

Front and rear break cables may get stretched. Tighten the nuts at the of the threaded end of the cable to adjust them. If the breaking power decrease, check the break pads. If necessary clean them with sand paper. If the break pads are worn out, replace them. If the break cable is streached to the point that there is no more threads left at the end, unscrew the lever and turned it away from the cable.

Check both axle nuts regularly and especially the rear one. Make sure to tighten the nuts firmly when you change a tube.



Rear Axle nuts - **Check them regularly**



Front Break Adjustment nut

FLAT TIRE REPAIR

1. Depress the tire valve to let all the air out of the tube, which will assist in removing the wheel from the .

2. Remove the wheel from the **MOTORINO™** using a wrench. Loosen the nuts counterclockwise and make sure to remove the wheel retention clips on the front wheel. Be sure to remember where all the spacers and washers belong. For rear tire removal you will also need to slip the chain off the rear sprocket to remove the wheel. The chain must be properly reinstalled and re-tensioned when reinstalling the rear wheel. Make certain the chain is properly positioned on both front and rear sprockets before re-tightening rear wheel.

3. Remove one bead of the tire from the rim by grasping it at a point opposite the valve stem with both hands and, at the same time, lifting and peeling one side of the tire off the rim. If the bead is on too tight for you to unseat it with your hands use tire levers to lift the bead carefully over the tire rim. Tire levers can be purchased at any local bike shop. Push the valve stem through the wheel rim. Remove the inner tube.

4. Carefully check the outside and inside of the tire for the cause of the puncture and remove any debris or damaging material from the inside or outside of the tire.

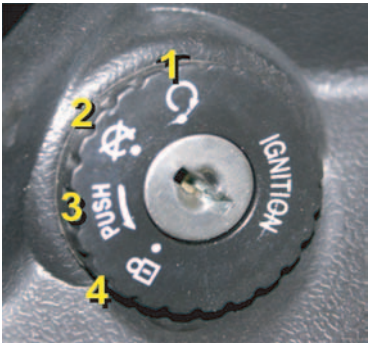
⚠WARNING ***IF THE TIRE IS CUT, YOU MUST REPLACE THE TIRE TO PREVENT ANY SUDDEN AND CATASTROPHIC FAILURE CAUSING LOSS OF CONTROL, SERIOUS INJURY OR DEATH.*** Replacement parts are available at your local **MOTORINO™** dealer

⚠WARNING ***PATCHING A TUBE IS AN EMERGENCY REPAIR. CARELESS PATCHING OR APPLYING SEVERAL PATCHES CAN SERIOUSLY WEAKEN THE TUBE, RESULTING IN POSSIBLE TUBE FAILURE, WHICH COULD CAUSE YOU TO LOOSE CONTROL AND FALL. REPLACE A PATCHED TUBE AS SOON AS POSSIBLE.***

5. Reinstall the tire and tube. Slip one tire bead over the rim. Insert the tube valve through its hole in the rim. Feed the tube carefully into the cavity of the tire. Inflate the tube just enough to give it some shape. Starting at the valve stem and working around both sides of the rim to the side opposite the valve stem, use your thumbs to push and seat the other bead of the tire inside the rim. Be careful not to pinch the tube between the tire bead and the wheel rim. If you have trouble getting the last few inches of bead over the edge of the rim with thumb pressure, use a tire lever and be careful not to pinch the tube.

⚠CAUTION ***IF YOU USE A SCREWDRIVER OR ANY TOOL OTHER THAN A TIRE LEVER, YOU ARE LIKELY TO PUNCTURE THE TUBE.***

6. Check to make sure that the tire is evenly seated around both sides of the rim and that the tube is inside the tire beads. Push the valve stem into the tire to make sure that its base is seated within the tire's beads. Inflate the tube slowly to the recommended pressure on the tire sidewall, all the way while checking to make sure that the tire beads stay seated in the rim. Replace the valve cap. Replace the wheel. .



KEY AND THROTTLE OPERATION

ON/OFF/LOCK Switch: (ignition)

1. **MOTORINO ™** is ON. Turn it ON only when you are ready to go. Turn it OFF when you are not riding and remove key.
2. **MOTORINO ™** is OFF. Turn it OFF when not in use to preserve the battery.
3. Turn the handlebar all the way to the left, push the key in on this possition to lock the handlebar and turn it to possition 4.
4. Handlebar is locked. The key can be removed.

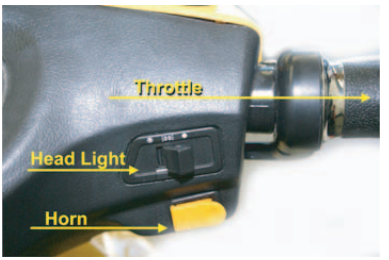
⚠ CAUTION

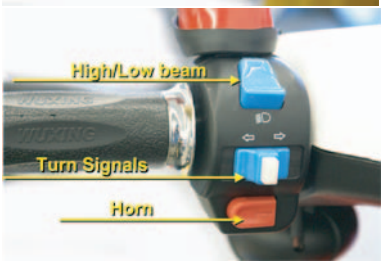
BEFORE OPERATING YOUR MOTORINO™ ***MAKE SURE THAT THE THROTTLE GRIP IS NOT ROTATED TO THE "ON" POSITION!!! MAKE ALSO SURE THAT YOUR THROTTLE IS NOT "STICKY" AND ROTATES FREELY BACK TO THE INITIAL POSSITION***
SEE PICTURE FOR CORRECT PLACEMENT OF LEVER BEFORE USAGE!!!

THROTTLE CONTROL

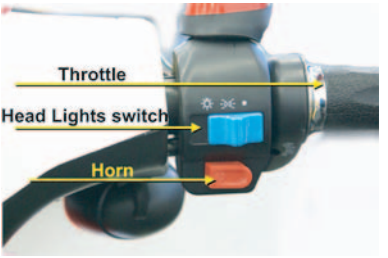
The MOTORINO™ uses a speed changing throttle grip. It is on the right side of the handlebar. Rotate the throttle grip toward the seat to accelerate and rotate forward away from the seat to slow down.

MOTORINO XPi control switches and throttle





MOTORINO XPh control switches and throttle



It is suggested after acceleration to turn back 1/4 turn the throttle. This will increase your range and increase your battery life.

OPERATING INSTRUCTIONS

1. Turn the key to the 'ON' position, then turn the Throttle gradually to accelerate.

2. To prevent losing control of the vehicle, please turn the Throttle slowly until the speed increases.

3. Do not turn the Throttle until you are in the position to drive.

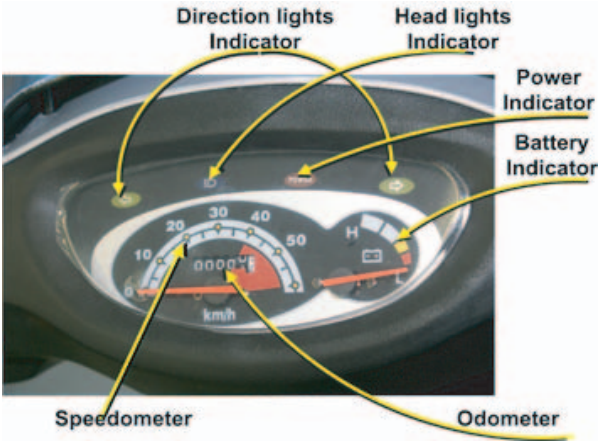
4. To stop, release the throttle and apply the front and rear brake simultaneously. You can decelerate by slightly pressing the brakes to start regeneration mode

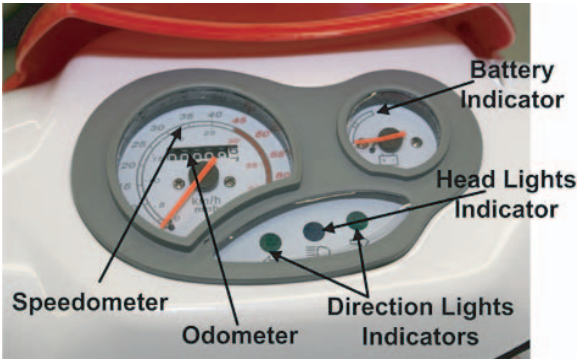
5. To move, release the brakes and turn the Throttle gradually.

6. When you turn move the turn signal switch left or right and don't forget to press it to turn it off.

7. The Brushless motor makes a small electromagnetic noise when turning the Throttle to start. This is normal.

8. Please, for your safety and security, take the key out when you are not riding.





⚠ CAUTION

BEFORE OPERATING YOUR* MOTORINO ™ *MAKE SURE THAT THE THROTTLE GRIP IS NOT ROTATED TO THE "ON" POSITION!!! MAKE ALSO SURE THAT YOUR THROTTLE IS NOT "STICKY" AND ROTATES FREELY BACK TO THE INITIAL POSSITION

The distance and speed depend upon various elements of the rider's style and the road conditions. A constant speed and less stops will ensure longer range. Other factors include weather, vehicle condition, and battery charge. Drivers must be cautious when driving on rough roads, in poor weather, or when the battery charge is low. Always check the battery gauge while you are riding and be sure that it does not get too low too often.

The **MOTORINO** ™ scooters driving system consist of four main components:

- Battery
- Controller
- Throttle
- Motor

When the throttle is twisted, a signal goes to the controller, relevant to the angle of turning. Then the controller draws from the battery current, relevant to the required speed, controlled by the throttle and the power necessary to start the scooter or drive it uphill.

The higher the driving speed is and the steeper the hill is, the lower the range of the **MOTORINO** ™ scooter is. A second battery can be connected to the extra battery cable to extend the range.

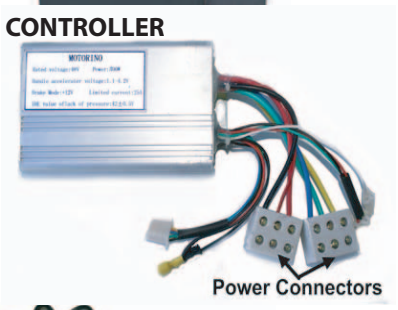
The main breaker under the seat works as a high current protector.

48V DC to 12V DC invertor inverts the voltage to 12V. All light bulbs work on 12V.

The alarm works on 48V. It is vibration sensitive. No matter that it consumes very little amount of power, it is recommended when the **MOTORINO** ™ is stored for a long period of time the main breaker to be turned OFF.

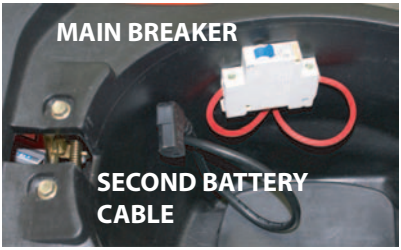
MAIN BATTERY

CONTROLLER



THROTTLE

MOTOR



ALARM

48/12V DC/DC INVERTER

Troubleshooting

Problem	Condition	Check	Solution
When I turn my vehicle on nothing happens.	1. No any light indications on the display.	1. Check the main breaker under the seat if it is on “ON” position. 2. Check power connection and battery level.	1. Flip the breaker lever on “ON” 2. Fasten connections.
	2. Power indication light is on	3. Check battery and motor connection.	3. Clean and fasten battery terminal connectors 4. Fasten the motor connections with the controller under seat
	3. Power indication light is on and the break light is on	4. Check the break levers if they return to normal position.	5. Loosen the break. If there is any corrosion replace. Contact the supplier.
		5. Battery voltage is below 42 volts.	6. Charge or replace battery. Contact the supplier.
The Throttle does not work or switch on, the vehicle moves without acceleration.	1. The Throttle does not return to stop position.	1. Check the grip for damage 2. Check the Throttle spring. 3.The Throttle handle if it is loose	1.Use a flat head screwdriver to adjust the gap between the rubber handle and the cover. 2. Readjust the Throttle spring position. Contact the supplier 3. Check Throttle connections. Contact the supplier.
The range is low	Charger light is off	1. Bad connection between the charger and the battery. 2. Charger doesn’t charge	1. Check the charger plug position. 2. Replace the charger
	Battery doesn’t hold the charge	1. Connections between the batteries are not good 2. Bad battery cell	1.Check all connections between the batteries 2. Replace the bad battery cell
The breaks are not working properly	1. Break levers go too deep 2. No breaking power	1. Needs adjustment 2. Break pads are dirty or need replacement	1. Adjust the break cable – see instructions 2. Clean break pads using sand paper or replace

Warranty

Greenwit Ltd. warrants to the original retail purchaser ("you") that the Greenwit Motorino scooters for which this warranty has been issued is free from defects in material and workmanship as follows:

Frame - 24 months warranty
Electric Motor - 12 months warranty
Controller and electrict circuits - 12 months warranty
Battery and charger - 6 months warranty

This warranty is not transferable to a subsequent purchaser. Greenwit's sole obligation under this warranty is to repair or replace the product, at Greenwit's option. Greenwit must be notified in writing of any claim under this warranty within 15 days of any claimed lack of conformity of the product. Imediate report to Greenwit or Motorino dealer is required if abnormal behaviour of the product is noticed.

Warranty Limitations

The duration of any implied warranty or condition, of merchantability for a particular purpose, or otherwise, on this product shall be limited to the duration of the express warranty set forth above. In no event shall Greenwit or Motorino dealers be liable for any loss, inconvenience or damage, whether direct, incidental, consequential or otherwise, resulting from breach of any express or implied warranty or condition, of merchantability for a particular purpose, or otherwise with respect to this product, except as set forth herein. Some provinces or countries do not allow limitation on how long an implied warranty lasts and some do not allow exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which may vary, from location to location. This warranty will be interpreted pursuant to the laws of Canada. The original English language version/meaning of this warranty controls over all translations and Greenwit is not responsible for any errors in translation of this warranty or any product instructions. This warranty is not intended to confer any additional legal, jurisdictional or warranty rights to you other that those set forth herein or required by law. If any portion of this warranty is held to be invalid or unenforceable for any reason, such finding will not invalidate any other provision. For products purchased in countries other than Canada please contact a Motorino authorized distributor in that respective country.

Warranty Service Options

To obtain service under this warranty you must Call Greenwit or Motorino dealer for Customer Service/Technical Support on your Product BEFORE returning your Greenwit Product back to the place of purchase. If you return your Greenwit Product for warranty service you must obtain a return authorization number by contacting Motorino dealer. Send your product (with the return authorization number on the outside of the shipping container and affixed to the product), together with the retail seller's original receipt or other satisfactory proof of the date of purchase to the dealer you have purchased it from

THE GREENWIT PRODUCT MUST BE RETURNED IN ITS ORIGINAL BOX, ALONG WITH ALL KEYS, CHARGER, MIRRORS & LOCKS, FLOOR MATS, AND ANY OTHER ACCESSORIES THAT CAME WITH YOUR UNIT. DUE TO TRANSPORTATION AND RECLAMATION ISSUES, IF THE GREENWIT PRODUCT IS NOT IN THE ORIGINAL PACKAGE IT MAY NOT BE RETURNED UNDER ANY CIRCUMSTANCES.

Any postage, insurance or other shipping costs incurred in sending your Greenwit product for service under either option above is your responsibility. Greenwit Ltd. will not be responsible for products lost or damaged in shipping.

Warranty Exclusions are listed below:

- Retailers and sellers of Greenwit products are not authorized to modify this warranty in any way. It is your responsibility to regularly examine the product to determine the need for normal service or replacement. This warranty does not cover the following
- Products that have been modified, neglected or poorly maintained, used for commercial purposes, misused or abused or involved in accidents.
- Damage occurring during shipment of the products (such claims must be presented directly to the shipper).
- Damage to products resulting from improper assembly or repair, the use or installation of parts or accessories not compatible with the original intended use of the product, or the failure to follow the product warnings and usage instructions.
- Damage or deterioration to the surface finish, aesthetics or appearance of the product.
- The labor required to remove and/or re-fit and re-adjust the item covered by this warranty.
- Normal wear to the product.
- Light bulbs and tubes
- Any products for which the consumer does not follow the warranty procedures outlined above.
- For the current version of this warranty please visit our website at www.greenwit.com

(©2007 Greenwit Ltd.)

7 DAY RETURN/EXCHANGE POLICY

THIS WRITTEN POLICY SUPERCEDES ANY OTHER PREVIOUS POLICY, WRITTEN OR IMPLIED. THIS WARRANTY IS TO BE POSTED AT THE STORE LEVEL IN PLAIN SIGHT OF THE CONSUMER.

ALL GREENWIT PRODUCTS PURCHASED AT RETAIL STORES IN CANADA ARE COVERED UNDER THIS 7 DAY RETURN POLICY

ALL GREENWIT PRODUCTS ARE EXCHANGEABLE OR RETURNABLE FOR ANY REASON TO THE RETAIL POINT OF PURCHASE, IF ACCOMPANIED BY A STORE RECEIPT, FOR A PERIOD OF SEVEN (7) DAYS FROM THE DATE OF PURCHASE. TO BE ELIGIBLE FOR RETURN OR EXCHANGE, ALLGREENWIT PRODUCTS MUST BE IN LIKE NEW CONDITION, IN THE ORIGINAL BOX, ALONG WITH ALL ACCESSORIES THAT INCLUDE, BUT IS NOT LIMITED TO, KEYS, MIRRORS, TOOL KITS, LOCKS, MANUALS, FUSES, CHARGERS, ETC. ALL PRODUCTS MUST HAVE THE KEYS REMOVED FROM THE KEY SLOT AND ATTACHED WITH A ZIP TIE TO THE HANDLE BARS, THE FUSE REMOVED, AND THE BATTERY DISCONNECTED EITHER BY THE QUICK DISCONNECT, OR BY REMOVING THE BATTERY LEADS AND COVERING THE TERMINALS WITH TAPE. IN COMPLIANCE WITH FEDERAL REGULATIONS.

DURING THE SEVEN (7) DAY RETURN/EXCHANGE PERIOD, ALL GREENWIT PRODUCTS ARE ALSO COVERED BY THE SPECIFIED WARRANTY TERMS ON PAGE 23 ON PARTS. THE WARRANTY DOES NOT COVER THE COST OF LABOR ON ANY PRODUCT FOR ANY REASON. THE CURRENT WARRANTY IS AVAILABLE ON THE INTERNET BY VISITING WWW.E-RIDE.CA OR BY CALLING THE GREENWIT TOLL FREE CUSTOMER SUPPORT NUMBER AT (1) 888 331 0555

GREENWIT OR THE RETAIL STORE MAY REFUSE ANY RETURN OR EXCHANGE IF THE PRODUCT IN QUESTION APPEARS TO HAVE BEEN NEGLECTED BY THE OWNER OR IF THE PRODUCT HAS BEEN DAMAGED OR IF THE CONSUMER FAILED TO COMPLY WITH THE WRITTEN INSTRUCTION MANUAL, THIS 10 DAY RETURN POLICY OR THE GREENWIT WARRANTY TERMS. RETAILERS AND SELLERS OF GREENWIT PRODUCTS ARE NOT AUTHORIZED TO MODIFY THIS RETURN/EXCHANGE POLICY OR WARRANTY IN ANY WAY.